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LDAP Schema for supporting XMPP in White Pages
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Abstract

The Extensible Messaging and Presence Protocol (XMPP) identifies users by use of JID (Jabber IDs). Lightweight Directory Access Protocol (LDAP) enables provision of a white pages service with schema relating to users and support for internet protocols. This specification defines schema to enable XMPP JIDs to be associated with objects in an LDAP directory so that this information can be used with white pages applications.

Status of This Memo

This Internet-Draft is submitted in full conformance with the provisions of BCP 78 and BCP 79.

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This Internet-Draft will expire on November 11, 2017.

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1. Introduction

Extensible Messaging and Presence Protocol (XMPP) [RFC6120] identifies users by use of JID (Jabber IDs). Lightweight Directory Access Protocol (LDAP) [RFC4510] enables provision of a white pages service with schema relating to users and support for internet protocols defined in [RFC4519]. This specification defines schema to enable XMPP JIDs to be associated with LDAP directory objects so that this information can be used with white pages applications.

The LDAP schema for storing JIDs is defined to enable JIDs to be associated with any object stored in the directory. This is done by associating the new JID Attribute with a new Auxiliary Object Class (JIDObject).

2. Conventions Used in This Document

The key words "MUST", "MUST NOT", "REQUIRED", "SHALL", "SHALL NOT", "SHOULD", "SHOULD NOT", "RECOMMENDED", "MAY", and "OPTIONAL" in this document are to be interpreted as described in [RFC2119].

3. Schema Definition

This section defines the schema used to store JIDs in the directory.

3.1. Object Class

This section defines a new Auxiliary Object Class (JIDObject) which may be associated with any primary Object Class.

```
( TBA.1 NAME 'JIDObject'
 AUXILIARY
 MAY jid )
```

3.2. Attribute

This section defines the JID attribute referenced by the ObjectWithJID Auxiliary Object Class. The syntax of the JID attribute MUST follow the rules of [RFC7622]. The JID stored MUST be a bare JID and not a full JID. Note that the LDAP directory server is NOT expected to enforce this syntax. The syntax rules are for LDAP clients setting this attribute.

```
( TBA.2 NAME 'jid'
   EQUALITY caseIgnoreMatch
   SUBSTR caseIgnoreSubstringsMatch
   SYNTAX 1.3.6.1.4.1.1466.115.121.1.15 )
```

1.3.6.1.4.1.1466.115.121.1.15 refers to the Directory String syntax defined in [RFC4517].

4. IANA Considerations

The two Object Identifiers, references as TBA.1 and TBA.2 in this draft are assigned by IANA in the "Object Identifier Descriptors" as the name of the LDAP Registry <https://www.iana.org/assignments/ldap-parameters/ldap-parameters.xhtml>.

5. Security Considerations

This schema enables publishing for XMPP JIDs, and care should be taken to ensure that this information is not accessed inappropriately.

6. Normative References

[RFC2119] Bradner, S., "Key words for use in RFCs to Indicate Requirement Levels", BCP 14, RFC 2119, DOI 10.17487/RFC2119, March 1997, <http://www.rfc-editor.org/info/rfc2119>.

[RFC4510] Zeilenga, K., Ed., "Lightweight Directory Access Protocol (LDAP): Technical Specification Road Map", RFC 4510, DOI 10.17487/RFC4510, June 2006, <http://www.rfc-editor.org/info/rfc4510>.

[RFC4517] Legg, S., Ed., "Lightweight Directory Access Protocol (LDAP): Syntaxes and Matching Rules", RFC 4517, DOI 10.17487/RFC4517, June 2006, <http://www.rfc-editor.org/info/rfc4517>.

[RFC4519] Sciberras, A., Ed., "Lightweight Directory Access Protocol (LDAP): Schema for User Applications", RFC 4519, DOI 10.17487/RFC4519, June 2006, <http://www.rfc-editor.org/info/rfc4519>.

[RFC6120] Saint-Andre, P., "Extensible Messaging and Presence Protocol (XMPP): Core", RFC 6120, DOI 10.17487/RFC6120, March 2011, <http://www.rfc-editor.org/info/rfc6120>.

[RFC7622] Saint-Andre, P., "Extensible Messaging and Presence Protocol (XMPP): Address Format", RFC 7622, DOI 10.17487/RFC7622, September 2015, <http://www.rfc-editor.org/info/rfc7622>.

Appendix A. Acknowledgements

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